

10/03/2003

09980398.trn

Connecting via Winsock to STN

Welcome to STN International! Enter x:x

LOGINID:ssspta1611hxl

PASSWORD:

TERMINAL (ENTER 1, 2, 3, OR ?):2

\* \* \* \* \* Welcome to STN International \* \* \* \* \*

NEWS 1 Web Page URLs for STN Seminar Schedule - N. America  
NEWS 2 "Ask CAS" for self-help around the clock  
NEWS 3 SEP 09 CA/CAPUS records now contain indexing from 1907 to the  
present  
NEWS 4 Jul 15 Data from 1960-1976 added to RDISCLOSURE  
NEWS 5 Jul 21 Identification of STN records implemented  
NEWS 6 Jul 21 Polymer class term count added to REGISTRY  
NEWS 7 Jul 22 INPADOC: Basic index (/BI) enhanced; Simultaneous Left and  
Right Truncation available  
NEWS 8 AUG 05 New pricing for EUROPATFULL and PCTFULL effective  
August 1, 2003  
NEWS 9 AUG 13 Field Availability (/FA) field enhanced in BEILSTEIN  
NEWS 10 AUG 15 PATDPAFULL: one FREE connect hour, per account, in  
September 2003  
NEWS 11 AUG 15 PCTGEN: one FREE connect hour, per account, in  
September 2003  
NEWS 12 AUG 15 RDISCLOSURE: one FREE connect hour, per account, in  
September 2003  
NEWS 13 AUG 15 TEMA: one FREE connect hour, per account, in  
September 2003  
NEWS 14 AUG 18 Data available for download as a PDF in RDISCLOSURE  
NEWS 15 AUG 18 Simultaneous left and right truncation added to PASCAL  
NEWS 16 AUG 18 FROSTI and KOSMET enhanced with Simultaneous Left and Right  
Truncation  
NEWS 17 AUG 18 Simultaneous left and right truncation added to ANABSTR  
NEWS 18 SEP 22 DIPPR file reloaded  
NEWS 19 SEP 25 INPADOC: Legal Status data to be reloaded  
NEWS 20 SEP 29 DISSABS now available on STN  
  
NEWS EXPRESS OCTOBER 01 CURRENT WINDOWS VERSION IS V6.01a, CURRENT  
MACINTOSH VERSION IS V6.0b(ENG) AND V6.0Jb(JP),  
AND CURRENT DISCOVER FILE IS DATED 23 SEPTEMBER 2003  
NEWS HOURS STN Operating Hours Plus Help Desk Availability  
NEWS INTER General Internet Information  
NEWS LOGIN Welcome Banner and News Items  
NEWS PHONE Direct Dial and Telecommunication Network Access to STN  
NEWS WWW CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that  
specific topic.

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\* \* \* \* \* STN Columbus \* \* \* \* \*

FILE 'HOME' ENTERED AT 15:25:46 ON 03 OCT 2003

=> fil reg

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

0.21

0.21

FILE 'REGISTRY' ENTERED AT 15:25:58 ON 03 OCT 2003

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Property values tagged with IC are from the ZIC/VINITI data file provided by InfoChem.

STRUCTURE FILE UPDATES: 1 OCT 2003 HIGHEST RN 596788-60-2

DICTIONARY FILE UPDATES: 1 OCT 2003 HIGHEST RN 596788-60-2

TSCA INFORMATION NOW CURRENT THROUGH JULY 14, 2003

Please note that search-term pricing does apply when conducting SmartSELECT searches.

Crossover limits have been increased. See HELP CROSSOVER for details.

Experimental and calculated property data are now available. See HELP PROPERTIES for more information. See STNote 27, Searching Properties in the CAS Registry File, for complete details:

<http://www.cas.org/ONLINE/STN/STNOTES/stnotes27.pdf>

=>

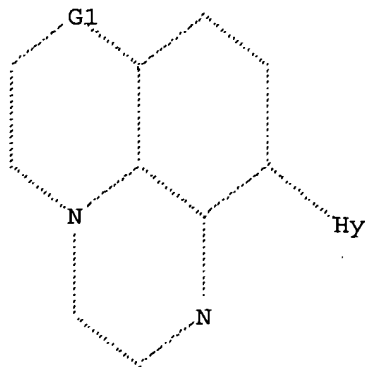
Uploading 09980398.str

L1 STRUCTURE UPLOADED

=> d l1

L1 HAS NO ANSWERS

L1 STR



G1 O,S

10/03/2003

09980398.trn

Structure attributes must be viewed using STN Express query preparation.

=> s l1

SAMPLE SEARCH INITIATED 15:26:26 FILE 'REGISTRY'

SAMPLE SCREEN SEARCH COMPLETED - 349 TO ITERATE

100.0% PROCESSED 349 ITERATIONS

3 ANSWERS

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE \*\*COMPLETE\*\*

BATCH \*\*COMPLETE\*\*

PROJECTED ITERATIONS: 5860 TO 8100

PROJECTED ANSWERS: 3 TO 162

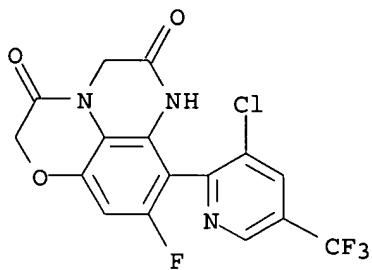
L2 3 SEA SSS SAM L1

=> d scan

10/03/2003

09980398.trn

L2 3 ANSWERS REGISTRY COPYRIGHT 2003 ACS on STN  
IN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
8-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-9-fluoro- (9CI)  
MF C16 H8 Cl F4 N3 O3



\*\*PROPERTY DATA AVAILABLE IN THE 'PROP' FORMAT\*\*

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1):end

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09980398.trn

=> s l1 ful

FULL SEARCH INITIATED 15:26:39 FILE 'REGISTRY'  
FULL SCREEN SEARCH COMPLETED - 7063 TO ITERATE

100.0% PROCESSED 7063 ITERATIONS  
SEARCH TIME: 00.00.01

33 ANSWERS

L3 33 SEA SSS FUL L1

=> fil caplus

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

148.15

148.36

FILE 'CAPLUS' ENTERED AT 15:26:44 ON 03 OCT 2003  
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FILE COVERS 1907 - 3 Oct 2003 VOL 139 ISS 15  
FILE LAST UPDATED: 2 Oct 2003 (20031002/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

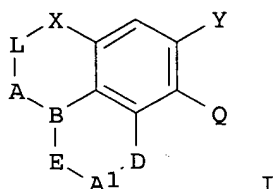
=> s l3

L4 1 L3

=> d abs ibib hitstr 1-

YOU HAVE REQUESTED DATA FROM 1 ANSWERS - CONTINUE? Y/(N):y

L4 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2003 ACS on STN  
GI



AB Title compds. [I; Q = specified (fused) (substituted) azinyl, azolyl residues; Y = H, halo; LX = O, S, SO, SO<sub>2</sub>, CR<sub>6</sub>R<sub>7</sub>, OCR<sub>6</sub>R<sub>7</sub>, CR<sub>6</sub>R<sub>7</sub>S, NR<sub>6</sub>, CR<sub>6</sub>:N, N:N, etc.; A, A<sub>1</sub> = 0-2 of O, S, SO, SO<sub>2</sub>, NH, CO, CS, CNH, CR<sub>6</sub>R<sub>7</sub>; B = N, CH, C, N<sup>+</sup>; R<sub>6</sub>, R<sub>7</sub>, R<sub>14</sub>, R<sub>15</sub> = H, halo, OH, cyano, NO<sub>2</sub>, (substituted) amino, alkyl, alkenyl, alkynyl, cycloalkyl, Ph, PhCH<sub>2</sub>, heteroaryl, alkoxy, aryloxy, carbonyl, arylcarbonyl, arylthiocarbonyl, arylcarbonylcarbonyl, etc.; D = NR, N:CR<sub>14</sub>, O, S, SO, SO<sub>2</sub>, CR<sub>14</sub>R<sub>15</sub>, CR<sub>14</sub>:CR<sub>15</sub>; R = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl, cycloalkylalkyl, alkylcarbonyl, alkylthioalkyl, heteroaryloxyalkyl, etc.], were prepd. Thus, 4-chloro-3-[7-fluoro-5-(2-chloroacetyl-amino)-2H-1,4-benzoxazine-3(4H)-on-6-yl]-1-methyl-5-trifluoromethyl-1H-pyrazole in DMF was treated with NaH followed by stirring for 2 h to give 8-[4-chloro-1-methyl-5-trifluoromethyl-1H-pyrazol-3-yl]-9-fluoro-5H-pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione. The latter at 250 g/ha preemergent gave complete control of *Amaranthus retroflexus*, *Abutilon theophrasti*, etc.

ACCESSION NUMBER: 2000:861656 CAPLUS  
DOCUMENT NUMBER: 134:29432  
TITLE: Preparation of pyrazinobenzoxazinediones and related compounds as herbicides.  
INVENTOR(S): Gupta, Sandeep; Pulman, David A.; Ying, Bai-Ping; Tsukamoto, Masamitsu; Haga, Takahiro  
PATENT ASSIGNEE(S): Ishihara Sangyo Kaisha, Ltd., Japan  
SOURCE: PCT Int. Appl., 42 pp.  
CODEN: PIXXD2  
DOCUMENT TYPE: Patent  
LANGUAGE: English  
FAMILY ACC. NUM. COUNT: 1  
PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
WO 2000073277	A1	20001207	WO 2000-US8745	20000421
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG				

PRIORITY APPLN. INFO.: US 1999-323823 A2 19990602

OTHER SOURCE(S): MARPAT 134:29432

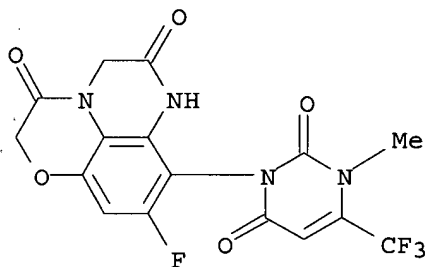
IT 311809-24-2P 311809-25-3P 311809-26-4P  
311809-27-5P 311809-28-6P 311809-29-7P  
311809-30-0P 311809-33-3P 311809-45-7P

311809-46-8P 311809-47-9P 311809-48-0P  
 311809-49-1P 311809-50-4P 311809-51-5P  
 311809-52-6P 311809-53-7P 311809-54-8P  
 311809-55-9P 311809-56-0P 311809-57-1P  
 311809-58-2P 311809-59-3P 311809-60-6P  
 311809-61-7P 311809-62-8P 311809-63-9P  
 311809-64-0P 311809-65-1P 311809-66-2P  
 311809-67-3P 311809-68-4P

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses) (prepn. of pyrazinobenzoxazinediones and related compds. as herbicides)

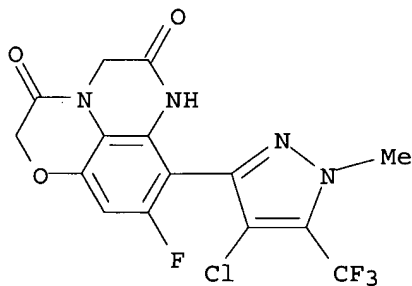
RN 311809-24-2 CAPLUS

CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
 8-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-9-fluoro- (9CI) (CA INDEX NAME)



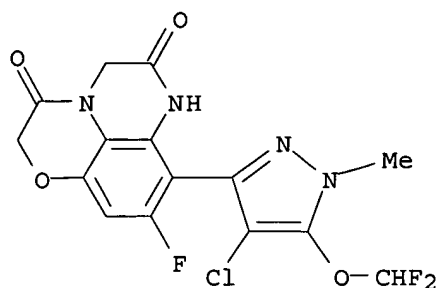
RN 311809-25-3 CAPLUS

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 (CA INDEX NAME)

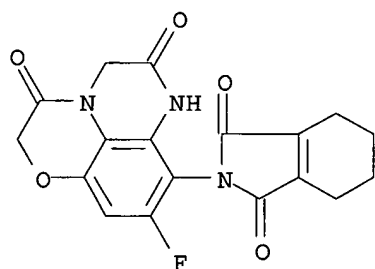


RN 311809-26-4 CAPLUS

CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
 8-[4-chloro-5-(difluoromethoxy)-1-methyl-1H-pyrazol-3-yl]-9-fluoro- (9CI)  
 (CA INDEX NAME)

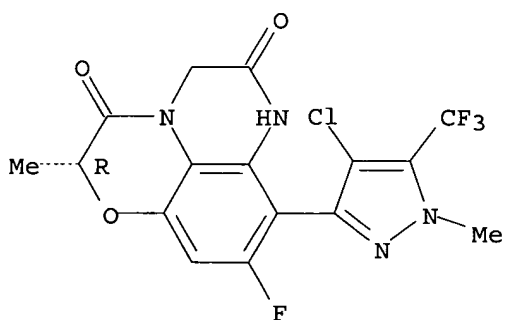


RN 311809-27-5 CAPLUS  
 CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
 9-fluoro-8-(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)- (9CI) (CA  
 INDEX NAME)



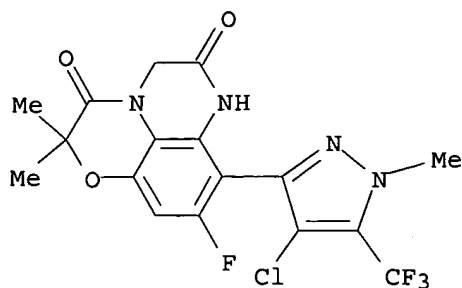
RN 311809-28-6 CAPLUS  
 CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
 8-[4-chloro-1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]-9-fluoro-2-  
 methyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



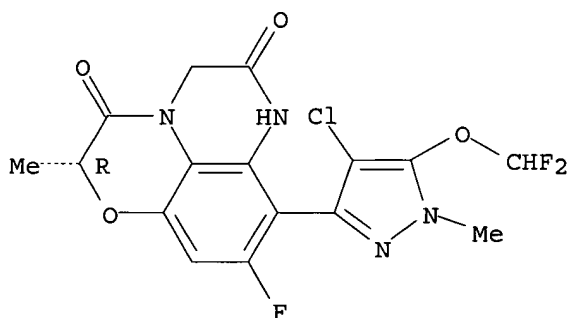
RN 311809-29-7 CAPLUS  
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 8-[4-chloro-1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]-9-fluoro-2,2-  
 dimethyl- (9CI) (CA INDEX NAME)



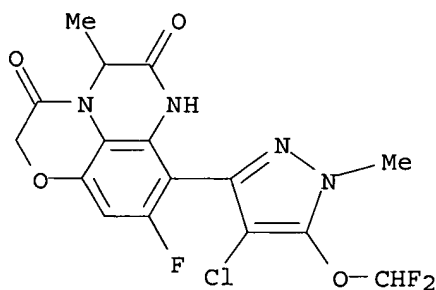


RN 311809-30-0 CAPLUS  
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 8-[4-chloro-5-(difluoromethoxy)-1-methyl-1H-pyrazol-3-yl]-9-fluoro-2-  
 methyl-, (2R)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

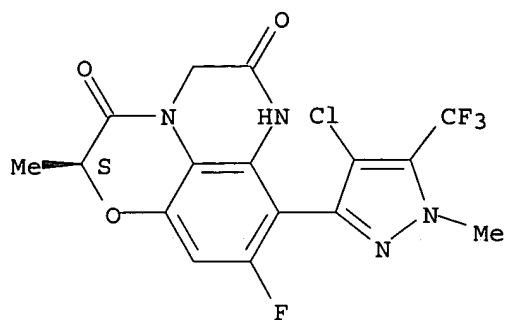


RN 311809-33-3 CAPLUS  
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 methyl- (9CI) (CA INDEX NAME)



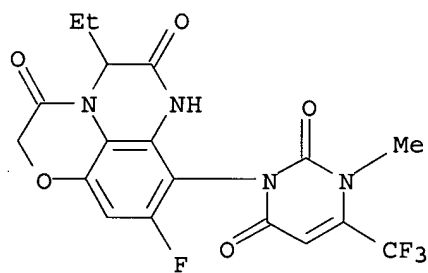
RN 311809-45-7 CAPLUS  
 CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
 8-[4-chloro-1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]-9-fluoro-2-  
 methyl-, (2S)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



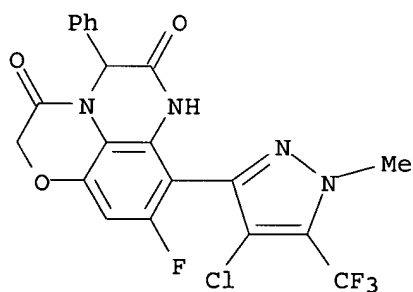
RN 311809-46-8 CAPLUS

CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
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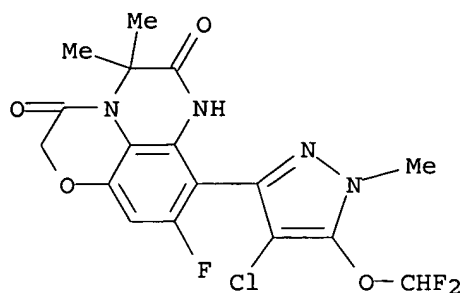
RN 311809-47-9 CAPLUS

CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
8-[4-chloro-5-(trifluoromethyl)-1H-pyrazol-3-yl]-9-fluoro-5-phenyl- (9CI) (CA INDEX NAME)



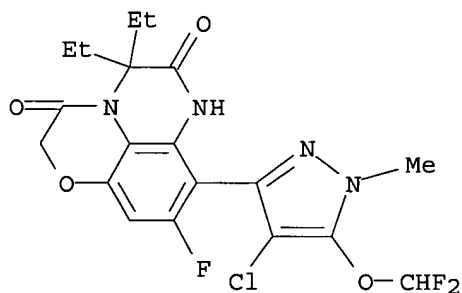
RN 311809-48-0 CAPLUS

CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
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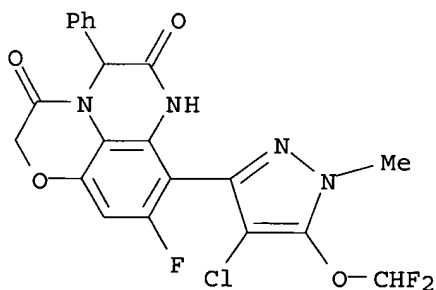
RN 311809-49-1 CAPLUS

CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
8-[4-chloro-5-(difluoromethoxy)-1-methyl-1H-pyrazol-3-yl]-5,5-diethyl-9-  
fluoro- (9CI) (CA INDEX NAME)



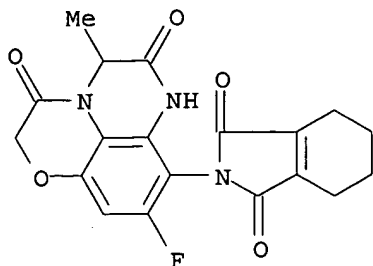
RN 311809-50-4 CAPLUS

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phenyl- (9CI) (CA INDEX NAME)



RN 311809-51-5 CAPLUS

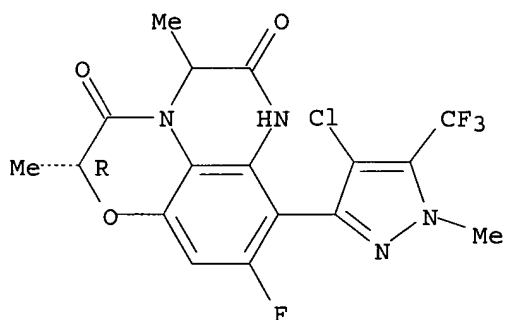
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9-fluoro-8-(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)-5-methyl-  
(9CI) (CA INDEX NAME)



RN 311809-52-6 CAPLUS

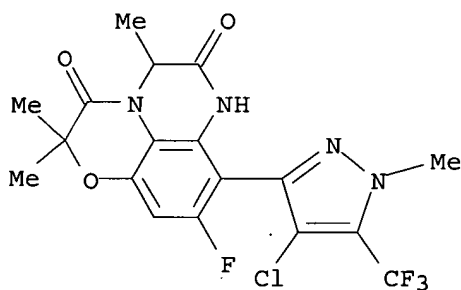
CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
8-[4-chloro-1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]-9-fluoro-2,5-  
dimethyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 311809-53-7 CAPLUS

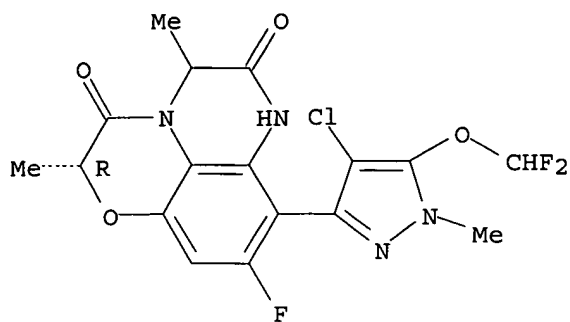
CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
8-[4-chloro-1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]-9-fluoro-2,2,5-  
trimethyl-, (9CI) (CA INDEX NAME)



RN 311809-54-8 CAPLUS

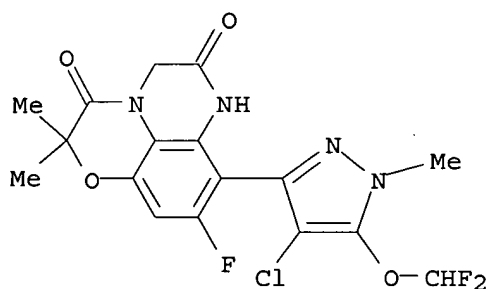
CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
8-[4-chloro-5-(difluoromethoxy)-1-methyl-1H-pyrazol-3-yl]-9-fluoro-2,5-  
dimethyl-, (2R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



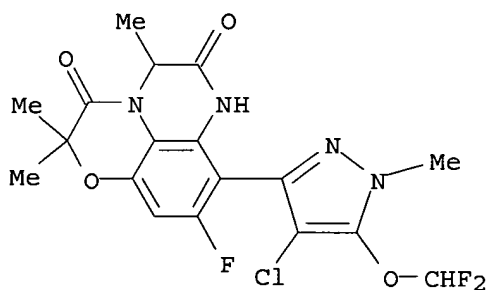
RN 311809-55-9 CAPLUS

CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
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dimethyl- (9CI) (CA INDEX NAME)



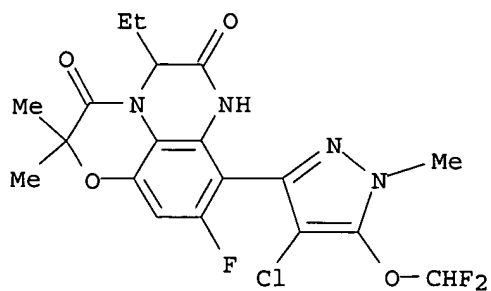
RN 311809-56-0 CAPLUS

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trimethyl- (9CI) (CA INDEX NAME)

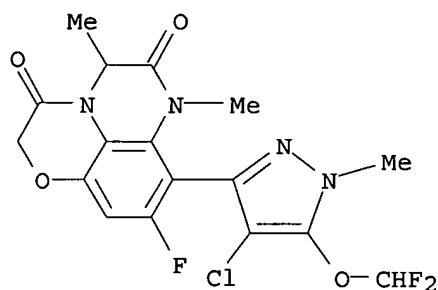


RN 311809-57-1 CAPLUS

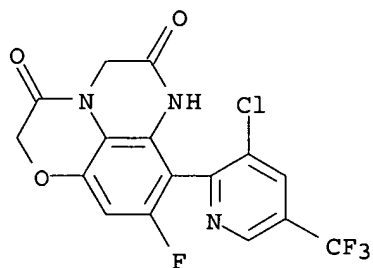
CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
8-[4-chloro-5-(difluoromethoxy)-1-methyl-1H-pyrazol-3-yl]-5-ethyl-9-fluoro-  
2,2-dimethyl- (9CI) (CA INDEX NAME)



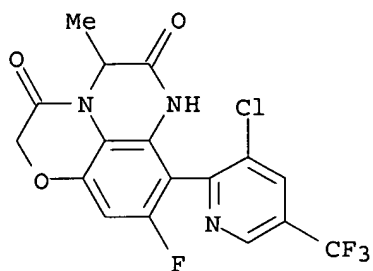
RN 311809-58-2 CAPLUS  
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 dimethyl- (9CI) (CA INDEX NAME)



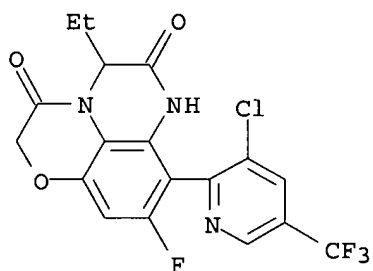
RN 311809-59-3 CAPLUS  
 CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
 8-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-9-fluoro- (9CI) (CA INDEX  
 NAME)



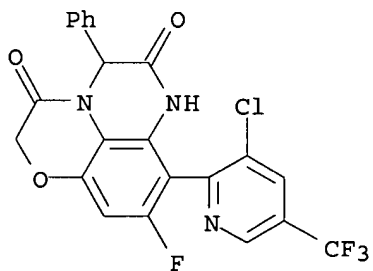
RN 311809-60-6 CAPLUS  
 CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
 8-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-9-fluoro-5-methyl- (9CI) (CA  
 INDEX NAME)



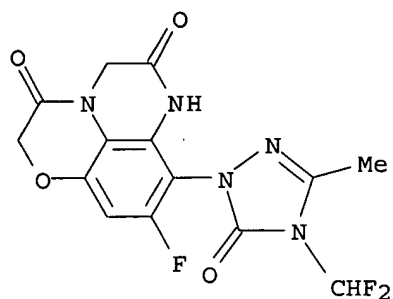
RN 311809-61-7 CAPLUS  
 CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
 8-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-5-ethyl-9-fluoro- (9CI) (CA  
 INDEX NAME)



RN 311809-62-8 CAPLUS  
 CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
 8-[3-chloro-5-(trifluoromethyl)-2-pyridinyl]-9-fluoro-5-phenyl- (9CI) (CA  
 INDEX NAME)

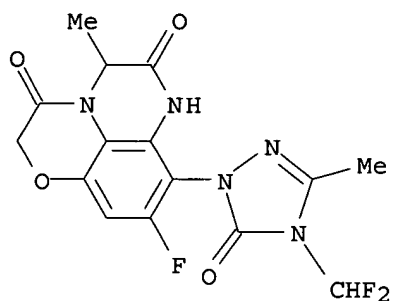


RN 311809-63-9 CAPLUS  
 CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
 8-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-9-  
 fluoro- (9CI) (CA INDEX NAME)



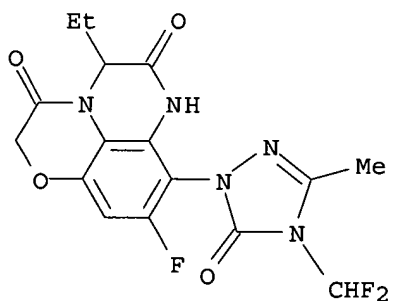
RN 311809-64-0 CAPLUS

CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
8-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-9-  
fluoro-5-methyl- (9CI) (CA INDEX NAME)



RN 311809-65-1 CAPLUS

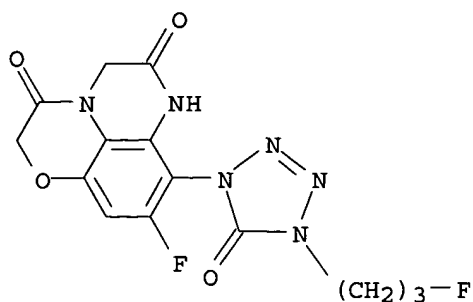
CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
8-[4-(difluoromethyl)-4,5-dihydro-3-methyl-5-oxo-1H-1,2,4-triazol-1-yl]-5-  
ethyl-9-fluoro- (9CI) (CA INDEX NAME)



RN 311809-66-2 CAPLUS

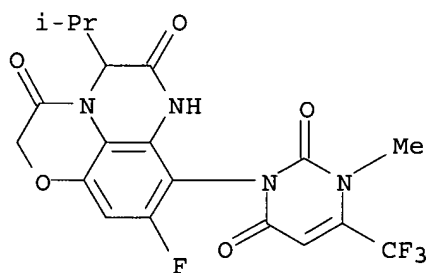
CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
9-fluoro-8-[4-(3-fluoropropyl)-4,5-dihydro-5-oxo-1H-tetrazol-1-yl]- (9CI)  
(CA INDEX NAME)





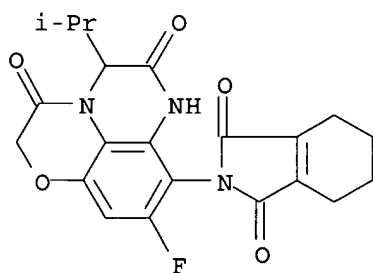
RN 311809-67-3 CAPLUS

CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
8-[3,6-dihydro-3-methyl-2,6-dioxo-4-(trifluoromethyl)-1(2H)-pyrimidinyl]-9-  
fluoro-5-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 311809-68-4 CAPLUS

CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
9-fluoro-8-(1,3,4,5,6,7-hexahydro-1,3-dioxo-2H-isoindol-2-yl)-5-(1-  
methylethyl)- (9CI) (CA INDEX NAME)



IT 311809-41-3P

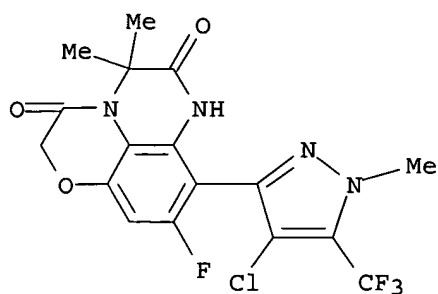
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT  
(Reactant or reagent)  
(prepn. of pyrazinobenzoxazinediones and related compds. as herbicides)

RN 311809-41-3 CAPLUS

CN 5H-Pyrazino[1,2,3-de]-1,4-benzoxazine-3,6(2H,7H)-dione,  
8-[4-chloro-1-methyl-5-(trifluoromethyl)-1H-pyrazol-3-yl]-9-fluoro-5,5-  
dimethyl- (9CI) (CA INDEX NAME)

10/03/2003

09980398.trn



REFERENCE COUNT:

3

THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS  
RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

10/03/2003

09980398.trn

=> d his

(FILE 'HOME' ENTERED AT 15:25:46 ON 03 OCT 2003)

FILE 'REGISTRY' ENTERED AT 15:25:58 ON 03 OCT 2003

L1 STRUCTURE UPLOADED

L2 3 S L1

L3 33 S L1 FUL

FILE 'CAPLUS' ENTERED AT 15:26:44 ON 03 OCT 2003

L4 1 S L3

=> logoff

ALL L# QUERIES AND ANSWER SETS ARE DELETED AT LOGOFF

LOGOFF? (Y)/N/HOLD:y

COST IN U.S. DOLLARS

SINCE FILE

TOTAL

ENTRY

SESSION

FULL ESTIMATED COST

4.95

153.31

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE

TOTAL

ENTRY

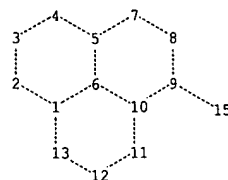
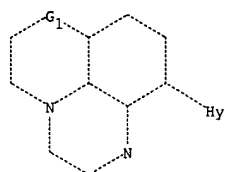
SESSION

CA SUBSCRIBER PRICE

-0.65

-0.65

STN INTERNATIONAL LOGOFF AT 15:27:06 ON 03 OCT 2003



chain nodes :

15

ring nodes :

1 2 3 4 5 6 7 8 9 10 11 12 13

chain bonds :

9-15

ring bonds :

1-2 1-6 1-13 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 10-11 11-12 12-13

exact/norm bonds :

1-2 1-6 1-13 2-3 3-4 4-5 5-6 5-7 6-10 7-8 8-9 9-10 9-15 10-11 11-12 12-13

G1:O,S

Match level :

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:Atom 8:Atom 9:Atom 10:Atom 11:Atom  
12:Atom 13:Atom 15:Atom